

Claims

What is claimed is:

1. A method for manufacturing a work piece by using in-mold coating and melt compression molding, the method comprising the steps of:
 - introducing an in-mold coating onto a first mold half of a mold tool;
 - introducing a work piece material onto a second mold half of the mold tool, the work piece material having a temperature at or above a temperature at which at least a portion of the work piece material is in a molten state;
 - closing the mold tool; and
 - opening the mold tool and removing the work piece after the work piece material has at least partially cooled.
2. A method for manufacturing a work piece according to Claim 1, wherein the in-mold coating is introduced by spraying the in-mold coating onto the first mold half.
3. A method for manufacturing a work piece according to Claim 1, wherein the work piece material comprises a thermoplastic resin material.
4. A method for manufacturing a work piece according to Claim 3, wherein the material comprises Polypropylene (PP), Acrylnitril-Butadiene-Styrene-Copolymer (ABS), Polycarbonate-Acrylnitril-Butadien-Styrol-Copolymer (PC/ABS), or Thermoplastic Olefin (TPO) material.
5. A method for manufacturing a work piece according to Claim 1, wherein the work piece material includes fillers, reinforcement glass or reinforcement natural fibers.
6. A method for manufacturing a work piece according to Claim 1, further including the step of introducing a mold release onto one of the first or second mold tool halves.